



#12

SEQUENCE LISTING

<110> WEI, Ming-Hui et al

<120> ISOLATED HUMAN G-PROTEIN COUPLED
RECEPTORS, NUCLEIC ACID MOLECULES ENCODING HUMAN GPCR
PROTEINS, AND USES THEREOF

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<141> 2001-03-29

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<212> DNA

<213> Homo sapiens

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ctgctgggtt	gaagttgagg	gttgggctgt	ttaggggctg	gagtggaagg	gggcagattg	600
g						601

<210> 9
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 9						
agtgtccctt	taacagcaac	tggcctggcc	tggctcgggc	cctgctttgc	ctcctgttca	60
gctgcggctg	cagctgccat	gctgactcat	gtgccgcag	ctagcaggag	ctggcagcat	120
gggctcccca	ggggctacga	caggctgggg	gcttctggat	tataagacgg	agaagtatgt	180
gatgaccagg	aactggcggg	tgggcgccct	gcagaggctg	ctgcagtttg	ggatcgtggg	240
ctatgtggta	gggtaagaga	gaagagcttt	tggccaggct	ggaggggcaa	gggaagaggt	300
sggggggtggg	gcttggtcct	gctgggttga	agttgagggt	tgggctgttt	aggggctgga	360
gtggaagggg	gcagattggg	acgggggttg	ggagagctag	gcgatacaag	acaggagagc	420
aagaacaagc	tgtgtgtttg	tcctgtgtgt	ccacttgcc	ccttcccagg	ccccaccca	480
ggccccaccc	agggggcaca	tgacatagtc	cttaacatct	gtgagagctg	gagcactagg	540
ccccagaga	gaccaccagc	tgtatctcgg	gtcaggagag	tctgtaaggg	ggaagctgga	600
t						601

<210> 10
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 10						
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tgctggctag	tgaaggtgat	tgtctgaggg	cattggctct	ctgatgcatg	gctggagctt	120
ctgtctcatt	cagggggtct	ggagtgggaa	gtggggccag	agaggagggtg	gggccttcga	180
tgttgggccg	ggagcctgta	gggtgtgggg	ggagaactga	gcatgtaggg	ctcagctccg	240

```

ccccctgtcac tacacgctgg ggacacacca cactgcccga cttctctctcc ccaggtgggc 300
kctcctcgcc aaaaaaggct accaggagcg ggacctggaa cccagtttt ccatcatcac 360
caaactcaaa ggggtttccg tctctcagat caaggagctt ggaaaccggc tgtgggatgt 420
ggccgacttc gtgaagccac ctccaggtggg ggccctgatg ttgctgacgg gggcgcaagt 480
cctttcccca ctgacagcct gaacaccgcg catgcagcca gtgtgtgcga gagagaagca 540
tgtgatgcc a gagacggctg cgggtttctca ggaagggtt cacagaggag tggcacctgg 600
a 601

```

```

<210> 11
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 11
atgtggccga cttcgtgaag ccacctcagg tgggggccct gatgttgctg acggggggcgc 60
aagtcctttc cccactgaca gcctgaacac ccgccatgca gccagtgtgt gcgagagaga 120
agcatgtgat gccagagacg gctgcgggtt ctccaggaagg gcttcacaga ggagtggcac 180
ctggacagga ctttcaggga tgtgtaggag gttttggggg ggaaaaaggg gccactcaag 240
aagccaggcc agggttggac gtgctggctc acgcctgtaa tcccagcact ttgggaggcc 300
raggcagggt gatcacgaga ttgagagtat cctggctaac acggtgaaac cccatctcta 360
ttaaaaatac aaaaaattag ccgggcatgg tgggtgggcgc ctgtagtccc agctactcgg 420
gaggctgggg caggagaatg gcatgaaccg gggagggtgga gcttgacgtg agccgagatt 480
gcaccactgc actccagcct ggggtggcaaa gcgagactct gtctcaaaaa aaaaaaaaaa 540
aagccaggcc agagaaactg catttccaaa gactgccaac agaaaagaag ggagtgtcca 600
g 601

```

```

<210> 12
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 12
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gaggagtggc acctggacag gactttcagg gatgtgtagg aggttttggg gtggaaaaag 120
gggccactca agaagccagg ccagggttgg acgtgctggc tcacgcctgt aatcccagca 180
ctttgggagg ccgaggcagg tggatcacga gattgagagt atcctggcta acacggtgaa 240
accccatctc tattaaaaat acaaaaaatt agccgggcat ggtggtgggc gcctgtagtc 300
scagctactc gggagggtgg ggcaggagaa tggcatgaac ccgggagggt gagcttgacg 360
tgagccgaga ttgcaccact gcaactccagc ctgggtggca aagcgagact ctgtctcaaa 420
aaaaaaaaaa aaaagccagg ccagagaaac tgcatttcca aagactgcca acagaaaaga 480
agggagtgtc caggactaat ggcttgagct tgagagtggg gtgagggtgt ggggcatgga 540
acttcctgtg agccctgctc cctgacctgg ggcactacgg tcagggtgctg ctccctccct 600
c 601

```

```

<210> 13
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 13
ttaatgactt gatggggcca acatcccttc cctcataaac caggctgcgg gcttccggcc 60
tttccagtca acacgagccc agccaggcca accttgagac ttgcctccta gggagagaa 120
gtgttcttct tgggtgaccaa ctcccttggt acgccagccc aagttcaggg cagatgccc 180
gaggtgagtt taccaggat cctcccagcg ggtcccttgt tccctcatca gccccagggt 240
gccacccgtg tttccctttc ccttcccag gtggtgaag gctcagcctg tgctcggtgt 300
sccccaggca ctgggttaca tcttttctg aatcattatg ttcagtcttc acatatcccc 360
tgcttggtag gaagtctgt gatccccatt tcagaggaga agactgaggc tcagtgggt 420

```

```

tgagtcactt tcttaaggcc tccaggcctg tgggtgacag gaccccgagc tctgggcagc 480
agcagttccc atgaggtgtc caggccctcc catcctgggc ctgcctctgg gtactctcca 540
ggttggtagt gtgacacca gagctgcgca catgctcagg gaggttctaa tagcaagagc 600
c 601

```

```

<210> 14
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 14
cttgccctggg gatgtccctg ggatcctgca tctgtcacag agcatgctca ttctctccag 60
ctgtgaattt tgtttgaact attgggactc aggacatagt cctgaaagtt tacctccaca 120
gtgacatctt taggcaagtc caacatttac gtgcctcctg ggctggaggg tcgttgtgca 180
gacagctgtc ccctgagccc tgggtggctgg tcctagcaca gttgctggag acatcccatg 240
tccgtagtgt gaaatatgca caaaggattg cttactcttt ttgtttgttt gtttttttga 300
satggagtct tgctcttgtc cccaaggctg gagttcaatg gcacgatctc ggctcactgc 360
aacctccgcc tectgggttc aagcagttct cctgtccacc ccctgagtag ctgggattac 420
aggtgcccgc cactgtgccc agctaatttt tgtattttta gtagagacgg ggtttcacca 480
tggtggccag gctggctctg aactcctggc ctcaggtgac ccaccagcct cggcctctca 540
aagtgtctgg attacaggcg tgagcctgcc gagagcttgg tcggggagac ctgaaccag 600
c 601

```

```

<210> 15
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 15
aggtggcagg tccgatgatg ggacagaggg tgtaggtggg ggacctaggg ctgcacttga 60
gcagaatctt tttttttttt ttcttttttt tttttttgag acagagtctc gctctgtcac 120
ccaggctgga gtgcagtggc gtgatctcgg ctcaactgcac acctccacct ccttgggttca 180
acgattcttc ctgcctcagc ctcccaagta ggtgggacta caggcacaca ccaccacact 240
cggctaattt ttgtattttt aatagagaca gggttttgct gtgtcggcca ggctggcttc 300
raactcctga cctcaggtaa tccgcccacc ttggcttctc aaagtgttgg gattacaggt 360
gtgccaggcc aagcagaatc ttaaaaaaag gtggggagaa gctggtgagc aggtggattt 420
ggttgaagca ggatgtcgac acagaggggg cttgggtggg aaaggccctg agctgtgtga 480
ggtagaggtg ctttagggct acctgccact ggggtggagc gaagtgaaga tttggactgg 540
ggtaggaaga aggtagtcca ggatttcagg ggccctgta agccccacta aggagctaaa 600
c 601

```

```

<210> 16
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 16
acaaagaagc agagcatgtg gctctgtctc gacctccacc caatcacgac ggccctgtct 60
ttcagaaagt cccaccgcct cattctggct tctcagaggg cctcagcctt ccttgccgcc 120
ctggtgctgg tggtcttctc gctgccccct agctgagtg cctgggcagc agtgtccatc 180
ctcagttggg gcaggaccat gcctggggat gtgcccgatg ctcaagggtg ccttcgtctc 240
tggggtctgg gacccagaa agctcacctg tctccccct ctgccagagc cccatagctc 300
yatgcctctg tgcaggcatt aatgtcccca gggtacagaa gagcgagcag gaaggagtag 360
cctgtggtcc ctcagcaagg gtgtggggtc ctgcttcaat acccaagccc ctgactctag 420
ggccctgatc tttgtcagct atgtcccat gccgggcac aaaaactcac cctcccaagg 480
tatcttcacc ttccctgatc tgtcatccaa attggaccag aggagctaga cctggaagaa 540
tcacttccgc atccaccagg gacagaactg tcaggaggga aggggcaggg tgcgttgtct 600

```

c

601

<210> 17
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 17
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 actgcactag agcctggaca acagagttag accgaatcac taaaaataaa ttttttgaaa 120
 aaggaggaaa ggggtctccc tttgtctttg aaatacagta ctgtaccttc atctggccag 180
 ggcatgtctc cgctccctcc tctgaccacc tccttttatt tgcaccctcc agctttcctg 240
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 kgggcctgtc cttcccacct tgaacctccc tgcctttgag actgggctgt ggaggggaga 360
 catcccctgt gccattgggt actgctctct ctcaccctc agcaccctc cgtcccactg 420
 gctaactgct gggtcgacga ggactgcccc gaaggggagg gaggcacaca cagccacggg 480
 aactgtgggc tctgtcttcc agtgccccta gcaggggtgg ggccgggctg ggatcctggg 540
 tggctcctga gtgcaggccc tgcctgcctc tgtccctgca tctctcttcc tgccaacaac 600
 c 601

<210> 18
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 18
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 ttggggggcag ggttcctaga gggctctggg agaggggtccc gggcccaccc accggtggaa 120
 aagctatgtg ctatgtgcag ggtggctctg taggcatacag agttcactgg gattgtgacc 180
 tggacaccgg ggactctggc tgcctggcctc actactcctt ccagctgcag gagaagagct 240
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 mctgtggcgg ccaggacaga ccacaccag gcccaggcct ctatgatatt cactacgtgt 360
 gcaagggggg cccaggagca ggagagagct gttctcaacc ccacatcctc cagcacaggc 420
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 ctcaggctcc tcactgccag cccttccctc accccacctc gcttctagta tctccctcc 540
 acagcaatgg ggtgtttcat ttttactttc cccttctccc ctccagcttt gttttttttt 600
 t 601

<210> 19
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> variation
 <222> (301)...(301)
 <223> 'T' can be either present or absent (single
 nucleotide insertion/deletion polymorphism)

<400> 19
 ggcccctgcc cagctcaggc tcctcactgc cagcccttcc tccaccccac ctgcgtttcta 60
 gtatctcccc tccacagcaa tgggggtgttt catttttact ttccccttct ccccttcagc 120
 tttgtttttt tttttttaag acagaatctc attctgtcac ccaggctgga gtgcagtggc 180
 ccgacctcgg ctactgtaa cctctgcttc ctgggttcaa ccgattctcc ttctcagcc 240
 tcctgagtag ctggaattac aggtgctcgc cactactccc agctaatttt tatattttgg 300
 tagatagaga tgggttttca caatgttggc caggctggtc tcaaaccctt gacctcaggg 360
 gatccacca cctcagcctc ccgaagggtc aggattacag acgtaaacca ccatgtctgg 420

```

cctcccttcc gcttttacct aaactttttt ttttttttg agatggagtc tcactctgtc 480
gcccaggctg gagtacagt gcgggatctc agctcactgc aagttccgct tcccgtgttc 540
acgccattct cctgcctcag cctcccaagt agctgggact acgggtgcac gcctccacgc 600
c                                                    601

```

```

<210> 20
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 20
ccaggaagtc taccccagtt cccaggaag agtgagttcc catctctgga atccctcagc 60
cctgagcctg ccccttcaca tcccccgctg ctgggtctgt ttagggactc ctctgtcccc 120
cgtcctctca gcaggcaggg aacttctgag ggacaggctt tcgtttgctt tttctgtttt 180
ctcaccaatt acatagggct gagaccaggg actcaggctt gggctggggg tttatagagt 240
caattgacaa gttggacaga ggtctggcag ggccagcccc acctgggggt gggcaaagca 300
rgtcaccaga gccttctttc ctgcccacag gacagccact cactggtggg agcaaccggg 360
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gcaggtaggc acaggtaggg gtcaggccgg ggatgggatg gggcaggcag acagggtgg 480
aggaggcatg aggctgacag tcgtgggctg agaggttcag ctcatctc tctcaggcag 540
ggaagttcgg gctcatcccc acggccgtca cactgggcac cggggcagct tggctgggcg 600
t                                                    601

```

```

<210> 21
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 21
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gacctgggt tctgccacac ttaggaagat gttggctgga tccctgacct gctgtcctca 180
tctgcaggcc aaggccccga aagcaaccgc caactctgtg tggagggagc tggcccttgc 240
atcccaagcc cgactggccg agtgccctcag acggagctca gcacctgcac ccacggccac 300
wgctgctggg agtcagacac agacaccagg atggccctgt ccaagttctg acacctactt 360
gccaacccat tccgggagcc tgtagccgtt ccctgctggt tgagagttgg gggctgggaa 420
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aattccaccc ttgaacccca gcagacagtc cctcccctga ctcccacctt ggtagggtgc 540
tgccctcagg agccatagaa gtcggctgtg ttttgagacg gcgacagaac ctgacctcgtg 600
g                                                    601

```

```

<210> 22
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 22
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tagggaatgg ggtggagtag gcagataatc cacctcccta tccccaggc aagggcggag 180
catgtgtctt gggcccacac ctgcttagtt tatgaggacc ggctgctttc cagtggtagc 240
ccttttgcca tggaggtctg ggagagagag cagagggcgg cagggtctaa ttggtgatca 300
ytgggttctt caggaccttc tatatccctc ctcggttaacc cccagccca accccttggg 360
atctttcctc caggcttcct gagagccctg ggggtgggag gctgtgggag gctgtacatc 420
tgaaattcac ttcagtccaa gtcataccta ggaagctgtc tgggcagctg ctcgaggagg 480
gccctggctc tgatcccagg ctggatggag tggctggaag gaatggttcc aaacaacacc 540
accgagatct ccctcaggct ggccaggttt tgcagctgga attctcctct tgggtccagg 600

```

g

601

<210> 23

<211> 601

<212> DNA

<213> Homo sapiens

<400> 23

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aaggcaaggt agaaagagga gtgatggggg agggggattg tttcagcttc tctggtgctg 60
tgatgcccc aaggagagtcct aatctagggg atgggggtgga gtaggcagat aatccacctc 120
cctatcccc aggcaagggc ggagcatgtg tcttggggcc acacctgctt agtttatgag 180
gaccggctgc tttccagtgg tagccctttt gccatggagg tctgggagag agagcagagg 240
gcggcagggc taagttagtg atcattgggt tcttcaggac cttctatata cctcctcggt 300
rccccccag cccaaccctt tggaatcttt cctccaggct tectgagagc cctgggggtg 360
ggaggctgtg ggaggctgta catctgaaat tcacttcagt ccaagtcata cctaggaagc 420
tgtctgggca gctgctcgag ggaggccctg gctctgatcc caggctggat ggagtggctg 480
gaaggaatgg ttccaaacaa caccaccgag atctccctca ggctggccag gttttgcagc 540
tggaattctc ctcttggtcc cagggcgggg caggggaattc taagtgtcca cccaggggag 600
g

```

<210> 24

<211> 601

<212> DNA

<213> Homo sapiens

<400> 24

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agggccccctg aggcctgggt atccaaggag gggcacgtgc acctgattct ccttggggcc 60
cagaggaagc tgatgtcatg gctggacaaa gtcacggagt aaagccagca aagccacctc 120
cttctgtgt agtccttaca ggcactgact gaaagttggg gggcatctat ggtagacatg 180
gcacagccat gaagagacca gtgggggtgt gcagggtgga cttggggacc ctaccctga 240
agactgaggc cctgcagcta ccagggtggc tagaaggtaa ctggaacagg cctgggcact 300
ygtgcaccca tgtaggagca tgagggccac actcttttca cctcaaagcc cttgaagagt 360
gggcaaagac agcaagagag ctgcagcctg gggccgagct cagaaacagc tgtcgccctc 420
gtctgcgcac aggcattcac cccagggtag tgccctcagg gatgcattgt tccccgtggg 480
ggtgcctgtg ccaggcaggc ctcagggtga tgccattgctc agaaccctgc tgccctttct 540
aggcagcctc cttggggccc aagctctgct ccctggatct gccacctagc agacgtgggg 600
a

```

<210> 25

<211> 601

<212> DNA

<213> Homo sapiens

<400> 25

```

gcctcagtct gcgcacaggc atgcacccca gggtagtgcc tgcagggatg catgtgtccc 60
cgtgggggtg cctgtgccag gcaggcctca ggtgcatgcc atgetcagaa cctgctgcc 120
ctttctaggc agcctccttg gggcccaagc tctgctccct ggatctgcc cctagcagac 180
gtggggagcc tgaccccatg cctgtcatgg aacctcctt gcctggtgtg tgtggctccc 240
ctcttcactg ggcacctgga tccaggccca cctgtgtccc tgactcaggg tgggtcccagg 300
mctggcacct actctttaga gagccccagc atctttgatg tggattggag acaattgcct 360
ggttccctgg ggcaggtgaa gacttggtgc cacaaagaat gccacagtgg atacgccagc 420
aggccacatg gctggccaag caattattat tatggatccc ttgggctgtg ggccttccca 480
tccacccac cacaactgcc caggtagctg gagctgatca taaacaagaa ggctctgggc 540
agagtccatg gcaccagcac cagccaaggc ccactcctga agaccgaag cccagccctc 600
g

```